



Applied Diffusion Processes from Engineering to Finance (Hardback)

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ISTE Ltd and John Wiley & Sons Inc, United Kingdom, 2013. Hardback. Condition: New. 1. Auflage. Language: English. Brand new Book. The aim of this book is to promote interaction between engineering, finance and insurance, as these three domains have many models and methods of solution in common for solving real-life problems. The authors point out the strict inter-relations that exist among the diffusion models used in engineering, finance and insurance. In each of the three fields, the basic diffusion models are presented and their strong similarities are discussed. Analytical, numerical and Monte Carlo simulation methods are explained with a view to applying them to obtain the solutions to the different problems presented in the book. Advanced topics such as nonlinear problems, Levy processes and semi-Markov models in interactions with the diffusion models are discussed, as well as possible future interactions among engineering, finance and insurance. Contents 1. Diffusion Phenomena and Models. 2. Probabilistic Models of Diffusion Processes. 3. Solving Partial Differential Equations of Second Order. 4. Problems in Finance. 5. Basic PDE in Finance. 6. Exotic and American Options Pricing Theory. 7. Hitting Times for Diffusion Processes and Stochastic Models in Insurance. 8. Numerical Methods. 9.Advanced Topics in Engineering:...



Reviews

This book is great. It is writter in simple words and not difficult to understand. I discovered this pdf from my dad and i suggested this ebook to find out.

This ebook is fantastic. We have read and i also am confident that i am going to going to read through again yet again in the future. I am easily can get a pleasure of reading a published ebook.

-- Heloise Dare